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Consultants and Engineers
(Building, Geo-Tech. & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448851634, 8762194386
Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/HB/17/2020-2021 Date:30.06.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)
Sample : :Cement (Chettinad 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: : March - 2021
Date of Testing : 28.06.2021 to 30.06.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

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Job No: SCE/BBMP/WB/17/2020-2021 Date: 30.06.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Executive Engineer, RR Nagar Division,BBMP, Bangalore
Agency : Sri. H B Rajendra, Contractor, Bangalore
Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE : 2019-20 RRN DIV(03), BBMP, Bangalore.

Date of Testing : 30.06.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand
Total Wt. of Aggregates in gms : 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	109	10.90	19.40	80.6	75-100
1.18	154	15.40	34.80	65.2	55-90
600 Micron	208	20.80	55.60	44.4	35-59
300 Micron	214	21.40	77.00	23.0	8-30
150 Micron	158	15.80	92.80	7.2	0-10

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 30.06.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.

Date of Testing 30.06.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95-100
20	8545	56.97	58.23	41.77	30-70
10	3069	20.46	78.69	21.31	10-35
4.75	2585	17.23	95.92	4.08	0-5

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 30.06.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.

Date of Testing 30.06.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	185	3.7	3.7	96.3	95-100
10	3215	64.3	68.0	32.0	25-55
4.75	1363	27.3	95.3	4.7	0-10

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Job No.: SCE/BBMP/HB/17/2020-2021 Date: 30.06.2021

TEST REPORT

CLIENT	:	**: Executive Engineer, RR Nagar Division,BBMP, Bangalore.**
AGENCY	:	**: Sri. H B Rajendra, Contractor, Bangalore.**
NAME OF THE WORK	:	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)
Type of the test	:	Physical tests on Paver Blocks
Date of Testing	:	30.06.2021
Samples supplied by	:	Agency

The results of the tests conducted on the Paver Blocks sample are as follows:

1. **THICKNESS:**

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	75.14	75.16
2	02	75.18	

2. **COMPRESSIVE STRENGTH:**

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	695.8	24,200	28.71	287.1	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	691.6	24,200	28.57	285.7	

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Job No: SCE/BBMP/HB/17/2020-2021

Date: 28.06.2021

KERB STONE (CORE) TEST REPORT

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of Work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.

No.of Sample Tested : 3

Date of Testing : 28.06.2021

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.365	2294.97	1.62	0.959	25.10	12.78	13.81	13.24	16.55
2	50.00	84.00	0.383	2322.15	1.68	0.965	26.30	13.39	14.47	13.97	17.46
3	50.00	87.00	0.396	2318.17	1.74	0.972	25.80	13.14	14.19	13.79	17.24

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JobNo: SCE/BBMP/HB/17/2020-2021

Date 30.06.2021

GRADATION FOR GSB (Grading V)

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985
Date of Testing 28.06.2021 to 30.06.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	715	715	5.50	94.50	80-100
26.5	3085	3800	29.23	70.77	55-90
9.5	3563	7363	56.64	43.36	35-65
4.75	1658	9021	69.39	30.61	25-50
2.36	3145	12166	93.58	6.42	10-20
0.85	252	12418	95.52	4.48	2-10
0.425	224	12642	97.25	2.75	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 05.07.2021

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of Work: Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Date of Testing: 05.07.2021

Material : Dry Lean Concrete

Oven Dry Wt (gm): 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	851	851	8.5	91.5	75-95
9.5	1542	2393	23.9	76.1	50-70
4.75	1045	3438	34.4	65.6	30-55
2.36	3362	6800	68.0	32.0	17-42
0.6	2154	8954	89.5	10.5	8-22
0.3	152	9106	91.1	8.9	7-17
0.15	187	9293	92.9	7.1	2-12
0.075	653	9946	99.5	0.5	0-10

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Job No.: SCE/BBMP/HB/17/2020-2021

19.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.231	508.6	22.60
2	12.07.2021	19.07.2021	8.247	520.4	23.13
3	12.07.2021	19.07.2021	8.227	522.5	23.22

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.234	512.9	22.80
2	12.07.2021	19.07.2021	8.225	523.6	23.27
3	12.07.2021	19.07.2021	8.251	522.1	23.20

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Job No.: SCE/BBMP/HB/17/2020-2021

19.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.229	515.9	22.93
2	12.07.2021	19.07.2021	8.224	526.5	23.40
3	12.07.2021	19.07.2021	8.262	532.0	23.64

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Job No.: SCE/BBMP/HB/17/2020-2021

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.227	515.1	22.89
2	12.07.2021	19.07.2021	8.252	527.0	23.42
3	12.07.2021	19.07.2021	8.239	509.5	22.64

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Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.238	527.2	23.43
2	12.07.2021	19.07.2021	8.247	518.8	23.06
3	12.07.2021	19.07.2021	8.236	528.4	23.48

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Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

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Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.244	517.0	22.98
2	12.07.2021	19.07.2021	8.232	522.5	23.22
3	12.07.2021	19.07.2021	8.252	531.4	23.62

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	
Agency	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Name of the work	: **Sri. H B Rajendra,** Contractor, Bangalore.
	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.226	524.0	23.29
2	12.07.2021	19.07.2021	8.253	526.7	23.41
3	12.07.2021	19.07.2021	8.258	529.5	23.53

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Consultants and Engineers
(Mucking, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/HB/17/2020-2021

19.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.248	530.2	23.56
2	12.07.2021	19.07.2021	8.232	518.8	23.06
3	12.07.2021	19.07.2021	8.239	519.0	23.07

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Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	19.07.2021	8.253	519.6	23.09
2	12.07.2021	19.07.2021	8.262	531.5	23.62
3	12.07.2021	19.07.2021	8.264	508.6	22.60

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09.08.2021

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Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of the work : Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.021	756.9	33.64
2	12.07.2021	09.08.2021	8.069	750.3	33.35
3	12.07.2021	09.08.2021	8.025	763.6	33.94

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Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.025	765.3	34.01
2	12.07.2021	09.08.2021	8.145	718.2	31.92
3	12.07.2021	09.08.2021	8.096	708.2	31.48

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.154	726.3	32.28
2	12.07.2021	09.08.2021	8.066	732.2	32.54
3	12.07.2021	09.08.2021	8.096	725.1	32.23

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Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.025	736.9	32.75
2	12.07.2021	09.08.2021	8.145	731.5	32.51
3	12.07.2021	09.08.2021	8.096	728.1	32.36

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Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.154	710.6	31.58
2	12.07.2021	09.08.2021	8.036	736.9	32.75
3	12.07.2021	09.08.2021	8.098	725.1	32.23

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.032	736.6	32.74
2	12.07.2021	09.08.2021	8.150	751.2	33.39
3	12.07.2021	09.08.2021	8.098	708.9	31.51

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Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.032	763.3	33.92
2	12.07.2021	09.08.2021	8.058	728.5	32.38
3	12.07.2021	09.08.2021	8.165	708.9	31.51

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.07.2021	09.08.2021	8.145	709.3	31.52
2	12.07.2021	09.08.2021	8.036	732.5	32.56
3	12.07.2021	09.08.2021	8.099	715.5	31.80

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2	12.07.2021	09.08.2021	8.032	725.4	32.24
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